

5129 N. Shirley St. Suite 100, Ruston, WA 98407

December 15, 2010

Mr. Kevin L. Rochlin  
Remedial Project Manager  
U.S. Environmental Protection Agency  
Region 10  
1200 Sixth Avenue, ECL-111  
Seattle, WA 98101

RE: Monthly Report: No. 174, November 2010  
Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. Point Ruston will continue to provide monthly reports to EPA for the site organized in the same manner as previous reports prepared by Asarco to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,

Loren Cohen  
Manager of Legal Affairs

Attachment (2 copies)

cc: Chung Ki Yee - Washington Department of Ecology  
Evan Griffiths - CH2MHill (2 copies)  
Leslie Ann Rose - Citizens for a Healthy Bay

Monthly Report 174, November 2010  
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Asarco Tacoma Smelter Site

A. *Actions taken to achieve compliance with the Consent Decree during the previous month.*

1. Met with EPA on November 12 for coordination meeting..
2. Completed construction of the sanitary sewer project with final City approval.
3. Erosion control BMP's were maintained after storm events, including replacement of silt fences and exclusion zone fence. On-going maintenance continues.
4. Built new haul road from central gate area in anticipation of BNSF excavation.
5. Continued weekly site-inspection reports (see attached).
6. Maintained clean work area and road.
7. Remedial Action activities continued.
8. Training activities include the following:
  - Site Safety Orientations (Clean Zone) was held for personnel of the following companies:
    - i. (1) J.R. Hayes & Sons, Inc. worker
    - ii. (1) Gibson Trucking worker
    - iii. (3) Parametrix workers
    - iv. (41) Shoreline Armoring bidders
    - v. (5) Santa Trucking workers
    - vi. (3) Cameron Bulldozing workers
    - vii. (2) Altus workers
    - viii. (1) R.C.D. Trucking worker
    - ix. (1) J.B.M. Enterprises worker
    - x. (1) T&T Trucking worker
    - xi. (1) United Rentals worker
    - xii. (1) PSC worker
    - xiii. (1) Thunderbird Trucking worker
    - xiv. (1) Sea Bright worker
    - xv. (3) Brundage & Bone workers
    - xvi. (1) Rodarte Construction worker
    - xvii. (1) Infinity Construction worker
  - Site Specific Safety Training (Exclusion Zone) was held for personnel of the following companies:
    - i. (1) EQM/Q2 worker
  - HAZWOPER Basic training was verified or completed by personnel of the following companies:
  - HAZWOPER annual retraining was verified or completed by personnel of the following companies:
    - i. (1) Point Ruston worker
  - Other relevant monitoring or training was verified or completed by personnel of the following companies:

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*B. Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.*

1. Outfall activities including the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from May-October, and in December, February, and April.

In addition to the North and South Outfalls, Point Ruston monitors an existing, upland station near the southeastern end of the car tunnel. This monitoring station is designated OSW2. Outfall samples were collected in November in lieu of October. Samples results for November 2010 are attached.

2. Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. LCRS and LDCRS volumes are monitored weekly in accordance with the draft OCF OMMP. LCRS volumes currently average approximately 117 gallons per day on the LCRS. Shipment of 3,685 gallons occurred on November 22. Information on the hauling company was provided to EPA/CH2MHill.
3. Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), and at the South Gate. With EPA approval, Point Ruston has suspended perimeter air monitoring during wet weather events that cause wet site conditions. Perimeter air monitoring was conducted on November 12, 15, 16, 17 and 29. It was not conducted on the remaining days due to wet site conditions caused by the weather. Perimeter air monitoring will resume when the weather allows the site to dry out. Results for samples collected on October 4<sup>th</sup>, which were inadvertently omitted from October's report, are attached. Results for samples collected in November are pending laboratory analysis and will be submitted with the December 2010 monthly report.

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4. Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1)(a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring (Exposure Evaluations) was not required in November.

C. *Work Plans and other deliverables completed and submitted during the previous month.*

1. Plans and Documents included the following:
  - Point Ruston, through Hydrometrics, is working on responses to comments received for the Temporary Cap Plan, Sequence of Development and Occupancy Plan (SDOP), BNSF Excavation & RA Plan, and the Operations Maintenance, and Monitoring Plan. Hydrometrics submitted a draft temporary capping plan and specifications for discussion as a part of the SDOP. The discussion of this plan is on-going.
2. Remedial Action included the following tasks:
  - OCF construction activities:
    - Maintained leachate collection system.
    - Inspected storm drain system, vaults and cover.
  - Stack Hill construction activities:
    - Maintained erosion and surface water controls; specifically on Commercial Street cul-de-sac area.
    - Maintained site perimeter fence and signage at the north end of Stack Hill.
  - Site-wide remediation/redevelopment activities:
    - Continued surface water controls
    - Maintained onsite haul roads and stockpiles
    - Maintained erosion and surface water controls; Installed silt fence along Gallagher Way
    - Continued site-wide dust monitoring and control through site and access road watering, as needed
    - Continued air-monitoring program per CH&SP

D. *Actions scheduled for the next six weeks.*

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1. Continue construction of public infrastructure. The sanitary sewer project was completed, tested and submitted for acceptance to the City of Tacoma, and Town of Ruston. Final LID formation is underway, with water and power scheduled as next phases.
2. Work on CH&SP air monitoring plan submittal to address recent EPA comments.
3. The deliverables specified in the BN Remedial Action Plan have been delivered to EPA for review. Upon approval of the Excavation and RA Plan excavation is scheduled to begin early next year.
4. Obtain final approvals from the Town of Ruston and the City of Tacoma for the road portion of the Master Infrastructure/LID project. The items remaining are resolution of the City's concerns relative to Bore Hole 3 and the signing of mylars.
5. Continue to work on response to address EPA comments regarding Occupancy Plan Development, and submit a proposal for a Temporary Cap in compliance with the Consent Decree.
6. Discuss Monitoring Wells and overall CH&SP monitoring plan for Site
7. Continue to work on response to EPA comments on the Operation, Maintenance and Monitoring Plan
8. Continue to work on response to EPA comments regarding the Point Ruston CC&Rs
9. Complete the ASARCO Dock Removal Project by DNR's contractor..
10. Begin shoreline armoring project through DNR.

The following Remedial Action tasks are planned to continue:

**RA Monitoring:**

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring during remedial action activities (not conducted during wet weather conditions when no work is underway.)

**OCF OMMP activities:**

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

**Stack Hill construction activities:**

- a. Erosion controls and site maintenance
- b. Continue home construction

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**Site-wide construction activities:**

- a. Continue surface water controls
- b. Maintain roads and stockpiles onsite
- c. Maintain erosion controls
- d. Construction activities for mass grading and Master Infrastructure

*E. Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.*

1. Point Ruston is continuing to work with the City of Tacoma & Town of Ruston on work associated with the Master Infrastructure CMP and Phase I CMP; LID processes are ongoing.
2. Point Ruston is coordinating with BNSF to secure a quit claim deed for the area adjacent to Ruston Way; Point Ruston submitted EPA completion letter for SAP, and the second closing is pending.

*F. Modifications to work plans or schedules proposed to or approved by EPA.*

1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
2. Point Ruston submitted a Request for Schedule Modification to Attachment 1 of the Final Statement of Work on February 9, 2010. EPA and Point Ruston continue discussions regarding a proposed schedule modification.

*G. Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.*

1. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans, which incorporate remediation components for the site.
2. Point Ruston continues to work with MetroParks to incorporate the capping component into the Peninsula Park design. Point Ruston has responded to Metro Parks draft engineering analysis for the Peninsula Park site.
3. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site.

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4. Point Ruston has been actively working with the Washington Dept. of Natural Resources on the Asarco docks demolition project. The 3 docks are currently being removed, with sediment capping work currently being completed. The project is scheduled to be completed in early December. DNR has opened its bid for the shoreline armoring portion of the project, per the EPA approved design. This shoreline armoring work is scheduled to occur through the end of the fish window, this season.



**Weekly Site Inspection Report No. 2010-1031**  
**Week of 10/31 - 11/6, 2010 Inspector TIM RUSTEN**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Gates:</b>						
51 <sup>st</sup> Street	<del>G</del>	<del>F</del>	<del>P</del>	<del>Y</del>	<del>N</del>	
South (electric)	(G)	F	P	Y	(N)	
Cooling Pond	(G)	F	P	Y	(N)	MODIFIED
Peninsula	(G)	F	P	Y	(N)	
54 <sup>th</sup> Street (electric)	(G)	F	P	Y	(N)	
<b>Signage:</b>						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Public Streets:</b>						
Ruston Way	(G)	F	P	Y	(N)	
51 <sup>st</sup> & Gallagher	(G)	F	P	Y	(N)	TOWN DEALING W/ LEAVES IN GUTTER.
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>BMPs:</b>						
Berms	G	(F)	P	(Y)	N	HEAVY RAINS 11/1/10 REVEALED 5-6
Waddles	G	F	P	Y	N	LOCATIONS WHERE BERMS NEED WORK.
Silt Fence	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
<b>Strom drains clean:</b>						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
<b>Stockpiles:</b>						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
<b>Dust:</b>						
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	WET CONDITIONS
(Other)	G	F	P	Y	N	
<b>Fencing:</b>						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	



**Weekly Site Inspection Report No. 2010-1031**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Docks:</b>						<u>DOCK DEMO IN PROGRESS</u>
Barriers	<u>G</u>	F	P	Y	<u>N</u>	
Signs	<u>G</u>	F	P	Y	<u>N</u>	
(Other)	G	F	P	Y	N	
<b>Cameras:</b>						
Stack Hill	<u>G</u>	F	P	Y	<u>N</u>	
Lower Site	G	F	<u>P</u>	<u>Y</u>	N	
	G	F	P	Y	N	
<b>Health &amp; Safety Plans:</b>						<u>REVIEWING COMMENTS TO V.5</u>
Site Superintendant	G	<u>F</u>	P	<u>Y</u>	N	
Construction Super.	G	<u>F</u>	P	<u>Y</u>	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

**Misc. notes:** THE COOLING POND GATE WAS WIDENED TO ALLOW ACCESS FOR CONCRETE TRUCKS TO FACILITATE SEWER ABANDONMENT RELATED TO LID ACTIVITIES.

**WEATHER:**

Day of Week	LOW/HIGH	Summary of Weather Conditions
Sunday <u>10/31</u>	<u>46/58</u>	SSW WIND 7 MPH/GUST 9 MPH, PRECIP. EARLY MORN. <sup>0.55"</sup>
Monday <u>11/1</u>	<u>49/57</u>	SSW WIND 5 MPH/GUST 8 MPH, PRECIP. MORN till EVE <sup>1.56"</sup>
Tuesday <u>2</u>	<u>49/59</u>	S WIND 5 MPH/GUST 8 MPH, NO PRECIPITATION
Wednesday <u>3</u>	<u>49/60</u>	NE WIND 4 MPH/GUST 8 MPH, NO PRECIPITATION
Thursday <u>4</u>	<u>46/66</u>	S WIND 4 MPH/GUST 5 MPH, NO PRECIPITATION
Friday <u>5</u>	<u>48/50</u>	NNE WIND 2 MPH/GUST 9 MPH, PRECIP. late EVE <sup>0.2"</sup>
Saturday <u>6</u>	<u>48/53</u>	S WIND 1 MPH/GUST 11 MPH, PRECIP. SCATTERED <sup>0.96"</sup>

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 11/8/10

SIGNED: 

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



**Weekly Site Inspection Report No. 2010-1107**  
**Week of 11/7 – 11/13, 2010 Inspector Tim Rusher**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Gates:</b>						
South (electric)	(G)	F	P	Y	(N)	
Cooling Pond	(G)	F	P	Y	(N)	
Peninsula	(G)	F	P	Y	(N)	
54 <sup>th</sup> Street (electric)	(G)	F	P	Y	(N)	
<b>Signage:</b>						
Gates	(G)	F	P	Y	(N)	
Perimeter	(G)	F	P	Y	(N)	
Safety	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Public Streets:</b>						
Ruston Way	(G)	F	P	Y	(N)	Sewer abandonment work in progress. cleaning as needed
51 <sup>st</sup> & Gallagher	(G)	F	P	Y	(N)	Sewer abandonment work in progress. cleaning as needed
Stack Hill	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>BMPs:</b>						See Notes
Berms	G	(F)	P	(Y)	N	Need to grade swale & berm at N. end (Contain storm run-off)
Waddles	(G)	F	P	Y	(N)	
Silt Fence	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Strom drains clean:</b>						
Lower Site	(G)	F	P	Y	(N)	
Stack Hill	(G)	F	P	Y	(N)	
<b>Stockpiles:</b>						
Envirotac II	(G)	F	P	Y	(N)	
Plastic	(G)	F	P	Y	(N)	
Packed	(G)	F	P	Y	(N)	
Grass	(G)	F	P	Y	(N)	
<b>Dust:</b>						Wet soil conditions
Traffic areas	(G)	F	P	Y	(N)	
Excavation area	(G)	F	P	Y	(N)	
(Other)	G	F	P	Y	N	
<b>Fencing:</b>						
Site Perimeter	(G)	F	P	Y	(N)	
Zone Separation	(G)	F	P	Y	(N)	Maintaining outer Exclusion perimeter (preventing access to inner clean areas)
(Other)	G	F	P	Y	N	
<b>Cameras:</b>						
Stack Hill	(G)	F	P	Y	(N)	
Lower Site	(G)	F	P	Y	(N)	

G=Good F=Fair P=Poor Y=Yes N=No

**Weekly Site Inspection Report No. 2010-1107**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						Preparing response to comments
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

**Misc. notes:** BMPs - During Heavy Rain events surface water flows across part of clean haul road between the N. Outfall building and Yacht Club road. Barricaded access until corrective measures can be taken.

**Docks** – Dock demolition is in progress. Category removed from Weekly Site Inspection Report due to lack of need to maintain signs & barriers.

**Air Monitoring** – Category added to Weekly Site Inspection Report to track air monitoring & related work activity.

**Air Monitoring:**

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 7	N	N	No RA activity. Wet Conditions.
Mon 8	N	N	No RA activity. Wet Conditions.
Tue 9	N	N	No RA activity. Wet Conditions.
Wed 10	N	N	No RA activity. Wet Conditions.
Thu 11	N	N	No RA activity. Wet Conditions.
Fri 12	Y	N	EQM/Q2 capping Exclusion Zone next to USACE tier 3 pile to load trucks. Excavator 2-4" RipRap
Sat 13	N	N	No RA activity. Wet Conditions.

**WEATHER:**

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 7	44°/57°	SSW winds 7mph/gust 11mph; Precipitation (early morning) 0.08"
Mon 8	41°/51°	S winds 7mph/gust 7mph, No Precipitation
Tue 9	40°/46°	S winds 2mph/gust 4mph, Precipitation (noon & evening) 0.64"
Wed 10	38°/50°	SSW winds 2mph/gust 6mph, No Precipitation
Thu 11	37°/51°	SSW winds 5mph/gust 10mph, Precipitation (afternoon) 0.08"
Fri 12	39°/51°	S winds 4mph/gust 10mph, No Precipitation
Sat 13	43°/49°	S winds 3mph/gust 8mph, No Precipitation

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 11/15/2010

SIGNED: 

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



**Weekly Site Inspection Report No. 2010-1114**  
**Week of 11/14 – 11/20, 2010 Inspector Tim Rusher**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Gates:</b>						
South (electric)	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Cooling Pond	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	11/18 – Lock Missing. Replaced & changed combos
Peninsula	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
54 <sup>th</sup> Street (electric)	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
<b>Signage:</b>						
Gates	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Perimeter	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Safety	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
(Other)	G	F	P	Y	N	
<b>Public Streets:</b>						
Ruston Way	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	Sewer abandonment completed. Cleaned as needed. Pot hole filled 11/19
51 <sup>st</sup> & Gallagher	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	Sewer abandonment completed. Cleaned as needed.
Stack Hill	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
(Other)	G	F	P	Y	N	
<b>BMPs:</b>						See Notes
Berms	G	<input checked="" type="radio"/> F	P	<input checked="" type="radio"/> Y	N	Need to grade swale & berm at N. end (Contain storm run-off)
Waddles	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Silt Fence	G	<input checked="" type="radio"/> F	P	Y	<input checked="" type="radio"/> N	Extensive repairs completed on 11/19 after wind storms.
(Other)	G	F	P	Y	N	
<b>Strom drains clean:</b>						
Lower Site	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Stack Hill	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
<b>Stockpiles:</b>						
Envirotac II	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Plastic	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	USACE Tier 3 pile exported by EQM/Q2
Packed	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Grass	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
<b>Dust:</b>						Wet soil conditions
Traffic areas	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Excavation area	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	11/16 - Minimal water spray used during loading of Tier 3 soils.
(Other)	G	F	P	Y	N	
<b>Fencing:</b>						See Notes
Site Perimeter	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Zone Separation	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	Maintaining outer Exclusion perimeter (preventing access to inner clean areas)
(Other)	G	F	P	Y	N	
<b>Cameras:</b>						
Stack Hill	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Lower Site	G	<input checked="" type="radio"/> F	P	<input checked="" type="radio"/> Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

**Weekly Site Inspection Report No. 2010-1114**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Health &amp; Safety Plans:</b>						Preparing response to comments
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

<b>Misc. notes:</b> BMPs - During Heavy Rain events surface water flows across part of clean haul road between the N. Outfall building and Yacht Club road. Barricaded access until corrective measures can be taken.
<b>Fencing</b> – Zone fencing in middle of site will not be maintained unless work needs to be done in that area. Barriers are placed to prevent access to this area. Outer perimeter of Exclusion Zone will be maintained.
<b>Docks</b> – Dock demolition is in progress. Category removed from Weekly Site Inspection Report due to lack of need to maintain signs & barriers.

**Air Monitoring:**

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 14	Y	N	EQM/Q2 exporting USACE Tier 3 soils. Excavator/Dump Trucks
Mon 15	Y	N	EQM/Q2 exporting USACE Tier 3 soils. Excavator/Dump Trucks
Tue 16	Y	N	EQM/Q2 exporting USACE Tier 3 soils. Excavator/Dump Trucks
Wed 17	N	N	No RA activity. Wet Conditions.
Thu 18	N	N	No RA activity. Wet Conditions.
Fri 19	N	N	No RA activity. Wet Conditions.
Sat 20	N	N	No RA activity. Wet Conditions.

**WEATHER:**

Day of Week		(LOW/HIGH)	Summary of Weather Conditions
Sun	14	47°/54°; SSW winds 3mph/gust 13mph; Precipitation (early morning) 0.08"	
Mon	15	50°/57°; SSW winds 9mph/gust 14mph; Precipitation (evening) 0.4"	
Tue	16	47°/54°; S winds 10mph/gust 4mph; No Precipitation	
Wed	17	41°/51°; SSW winds 8mph/gust 9mph; Precipitation (morning & noon) 0.68"	
Thu	18	37°/45°; SSW winds 7mph/gust 8mph; Precipitation (early morning & noon) 0.7"	
Fri	19	38°/47°; S winds 3mph/gust 10mph; No Precipitation	
Sat	20	36°/44°; NE winds 7mph/gust 9mph; No Precipitation	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 11/22/2010

SIGNED: 

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



# Weekly Site Inspection Report No. 2010-1121

Week of: 11/21 – 11/27, 2010

Inspector: Tim Rusher

## Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Gates:</b>						
South (electric)	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Cooling Pond	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Peninsula	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
54 <sup>th</sup> Street (electric)	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
<b>Signage:</b>						
Gates	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Perimeter	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Safety	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
(Other)	G	F	P	Y	N	
<b>Public Streets:</b>						
Ruston Way	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
51 <sup>st</sup> & Gallagher	G	<input checked="" type="radio"/> F	P	Y	<input checked="" type="radio"/> N	11/22 Road closed by Town Of Ruston due to snow
Stack Hill	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
(Other)	G	F	P	Y	N	
<b>BMPs:</b>						
Berms	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	Need to grade swale & berm at N. end (Contain storm run-off)
Waddles	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Silt Fence	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
(Other)	G	F	P	Y	N	
<b>Strom drains clean:</b>						
Lower Site	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Stack Hill	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
<b>Stockpiles:</b>						
Envirotac II	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Plastic	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Packed	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Grass	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
<b>Dust:</b>						Wet soil conditions
Traffic areas	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Excavation area	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
(Other)	G	F	P	Y	N	
<b>Fencing:</b>						
Site Perimeter	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Zone Separation	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	Maintaining outer Exclusion perimeter (preventing access to inner clean areas)
(Other)	G	F	P	Y	N	
<b>Cameras:</b>						
Stack Hill	<input checked="" type="radio"/> G	F	P	Y	<input checked="" type="radio"/> N	
Lower Site	G	<input checked="" type="radio"/> F	P	<input checked="" type="radio"/> Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

**Weekly Site Inspection Report No. 2010-1121**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Health &amp; Safety Plans:</b>						Preparing response to comments
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

<b>Misc. notes:</b> OCF – 11/22 3,685 gallons leachate exported.

**Air Monitoring:**

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun <b>21</b>	N	N	No RA activity. Wet Conditions (snow).
Mon <b>22</b>	N	N	No RA activity. Wet/Frozen Conditions (snow).
Tue <b>23</b>	N	N	No RA activity. Wet/Frozen Conditions (snow).
Wed <b>24</b>	N	N	No RA activity. Wet/Frozen Conditions.
Thu <b>25</b>	N	N	No RA activity. Wet Conditions. Holiday No Work
Fri <b>26</b>	N	N	No RA activity. Wet Conditions. Holiday No Work
Sat <b>27</b>	N	N	No RA activity. Wet Conditions.

**WEATHER:**

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun <b>21</b>	33°/39°; NE winds 6mph/gust 8mph; Precipitation (SNOW)	
Mon <b>22</b>	23°/36°; NNE winds 7mph/gust 12mph; No Precipitation	
Tue <b>23</b>	17°/26°; N winds 7mph/gust 13mph; No Precipitation	
Wed <b>24</b>	15°/29°; S winds 1mph/gust 4mph; No Precipitation	
Thu <b>25</b>	29°/39°; S winds 1mph/gust 5mph; No Precipitation	
Fri <b>26</b>	37°/49°; SSW winds 6mph/gust 10mph; Precipitation (morning & evening) 0.44"	
Sat <b>27</b>	36°/44°; S winds 1mph/gust 5mph; No Precipitation	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 11/29/2010

SIGNED: \_\_\_\_\_

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



# Weekly Site Inspection Report No. 2010 - 1128

Week of: 11/28 – 12/04, 2010

Inspector: Tim Rusher

## Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
<b>Gates:</b>						
South (electric)	G	F	P	Y	N	Needs general maintenance (Lube/Alignment/Adjustment, etc)
Cooling Pond	G	F	P	Y	N	
Peninsula	G	F	P	Y	N	
54 <sup>th</sup> Street (electric)	G	F	P	Y	N	
<b>Signage:</b>						
Gates	G	F	P	Y	N	
Perimeter	G	F	P	Y	N	
Safety	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
<b>Public Streets:</b>						
Ruston Way	G	F	P	Y	N	
51 <sup>st</sup> & Gallagher	G	F	P	Y	N	
Stack Hill	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
<b>BMPs:</b>						
Berms	G	F	P	Y	N	Graded swale & berm at N. end to contain storm run-off.
Waddles	G	F	P	Y	N	
Silt Fence	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
<b>Strom drains clean:</b>						
Lower Site	G	F	P	Y	N	
Stack Hill	G	F	P	Y	N	
<b>Stockpiles:</b>						
Envirotac II	G	F	P	Y	N	
Plastic	G	F	P	Y	N	
Packed	G	F	P	Y	N	
Grass	G	F	P	Y	N	
<b>Dust:</b>						Wet soil conditions
Traffic areas	G	F	P	Y	N	
Excavation area	G	F	P	Y	N	
(Other)	G	F	P	Y	N	
<b>Fencing:</b>						
Site Perimeter	G	F	P	Y	N	
Zone Separation	G	F	P	Y	N	Maintaining outer Exclusion perimeter (preventing access to inner clean areas)
(Other)	G	F	P	Y	N	See Notes
<b>Cameras:</b>						
Stack Hill	G	F	P	Y	N	
Lower Site	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No



**Weekly Site Inspection Report No. 2010 - 1128**  
**Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)**

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?		COMMENTS/OBSERVATIONS
Health & Safety Plans:						Preparing response to comments
Site Superintendant	G	F	P	Y	N	
Construction Super.	G	F	P	Y	N	
Other	G	F	P	Y	N	

G=Good F=Fair P=Poor Y=Yes N=No

**Misc. notes:** Fencing – 12/3 Workers on yacht club road working on wood panel fence between road and slag peninsula. Apparent wind damage as section of fence was down.

**Air Monitoring:**

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 28	N		No RA activity. Wet Conditions.
Mon 29	Y		Build Swale & Berm at N end of site to contain storm water in Exclusion Zone. Excavator
Tue 30	N		No RA activity. Wet Conditions.
Wed 12/1	N		No RA activity. Wet Conditions.
Thu 2	Y		Finished Swale & Berm work at N end (clean up & stockpile spoils). Backhoe
Fri 3	N		No RA activity. Wet Conditions.
Sat 4	N		No RA activity. Wet Conditions.

**WEATHER:**

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 28	37°/44°; South wind 1mph/Gust 5mph; No Precipitation	
Mon 29	36°/44°; South wind 1mph/Gust 6mph; Precipitation late evening 0.28"	
Tue 30	41°/49°; SSW wind 2mph/Gust 9mph; Precipitation Scattered 0.48"	
Wed 12/1	38°/47°; South wind 1mph/Gust 4mph; No Precipitation	
Thu 2	37°/44°; South wind 1mph/Gust 5mph; No Precipitation	
Fri 3	38°/46°; NE wind 3mph/Gust 8mph; No Precipitation	
Sat 4	32°/45°; NNE wind 6mph/Gust 10mph; No Precipitation	

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 12/6/2010

SIGNED: 

TITLE / QUALIFICATION:

Construction Oversight / Health & Safety Officer

**Generator's Waste Profile 362641-01**

Page 1

Starts : 06 OCT 2009  
Expires: 31 OCT 2011  
Printed: 19 NOV 2010

Status : ACTIVE

Sales Rep 280 Erin Burraston  
Acct Mngr 035 Brenda Smithson

**A: GENERATOR ( 69125 ) SITE INFORMATION**

Point Ruston, LLC  
5005 Ruston Way  
TACOMA, WA 98407  
> Contact TIM RUSHER  
TSDf Approval List No

EPA WAD010187896  
NAICS 238910 Neshap N 7821 S 198TH STREET  
KENT, WA 98032  
Phone (253) 752-2185 x211

**B: CUSTOMER ( 31158 ) INFORMATION**

GENERAL ENVIRONMENTAL MGMT.  
7821 S 198TH STREET  
KENT, WA 98032

**C: WASTE INFORMATION**

On File > MSDS No Analysis Yes Sample No

Waste Name NON REGULATED WATER  
Process LEACHATE WATER RECOVERY SYSTEM  
Unused Commercial Product No Spill Residue No

**D: PHYSICAL CHARACTERISTICS OF WASTE**

Phys States	L-Liq	Top Color	WATER	Odor	None	PH Range	4-10
		Mid Color		Layers	Single Phased	Free Liq %	100
		Bot Color		Spec Grav	1.0	Flash Test	NT
		% Ash		BTU/Lbs		Flash Rnge	NO FLASH
		% Water		% Halogens		Viscosity	No
						Pumpable	No

**E: CHEMICAL COMPOSITION OF WASTE**

Information Provided By Generator

WATER ( 100 % )  
PCB's NONE Cyanides NONE Phenolics NONE Sulfides NONE Dioxins NONE  
TOC <1% VOC <500 PPM

**F: METALS METHOD**

Gen Knowledge	Cadmium	<1	Chromium	<5	Silver	<5	Zinc	0	
Arsenic	<5	Merc TCLP	<0.2	Selenium	<1	Nickel	0	Copper	0
Barium	<100	Lead	<5	Merc Tot	<260	Thallium	0	Chrome-6	

**G: OTHER CHARACTERISTICS OF WASTE**

Ign. Solid	No	Oxidizer	No	Explosive	No	Shock Sensitive	No	Cyanide Reactive	No	Sulfide Reactive	No
Explosive	N/A	Asbestos	N/A	Radioactive	No	Water Reactive	No	Reactive (Other)	No		
Herbicides	NONE	Pesticides	NONE	Ammonia	NONE	Infectious	No	Medical	No		

**H: EPA / STATE WASTE IDENTIFICATION**

EPA Waste No	State Waste No	TSCA No	Waste Water No	Universal Waste No			
Form W113	Source G26	Origin 1	SubPart CC No	NESHAPS No	CERCLA No	Debris No	Reg. Organics No

EPA Codes  
State Codes  
UHC

Categorical Discharge Standards No

DW/EHW:

**I: SHIPPING INFORMATION**

Marine Pollutant No

Containers	TT Tank Trucks	Qty to Ship Now	1	Projected Volume
DOT Descrip	NON HAZARDOUS LIQUID			

**J: SPECIAL DISPOSAL INSTRUCTIONS**

Waste Categs WATB05-1

COPY

**Generator's Waste Profile 362641-01**

Starts : 06 OCT 2009  
Expires: 31 OCT 2011  
Printed: 19 NOV 2010

Status : ACTIVE

Sales Rep 280 Erin Burraston  
Acct Mngr 035 Brenda Smithson

**GENERATOR CERTIFICATION**

I hereby certify, as an authorized representative of the Generator named above, that PSC Environmental, LLC has been fully informed of all information known about this waste, including but not limited to, the waste's generation process, composition, and physical characteristics, necessary to identify proper treatment and disposal of waste and this information is true and accurate. If this is an existing profile which is being renewed, I hereby certify that there have been no changes in this waste, chemical, physical, or regulatory designation since full characterization by sample testing.

Signature

Printed Name

Title

Date

TIM RUSHER

CONSTRUCTION OVERSIGHT 11/19/18

PSC Environmental, LLC maintains the appropriate permits for and will accept the dangerous waste the generator is shipping as required by WAC 173-303-290(3).



# SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • [www.spectra-lab.com](http://www.spectra-lab.com)

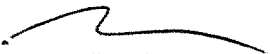
10/25/2010

Point Ruston  
5219 N. Shirley St.,  
Suite 100  
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)  
Sample Matrix: Filter  
Date Sampled: 10/04/2010  
Date Received: 10/11/2010  
Spectra Project: 2010100219

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
8226604	1	Arsenic	0.15	µg/m3	SW846 6010B
8226604	1	Lead	0.10	µg/m3	SW846 6010B
8226603	2	Arsenic	< 0.05	µg/m3	SW846 6010B
8226603	2	Lead	< 0.05	µg/m3	SW846 6010B
8226602	3	Arsenic	< 0.05	µg/m3	SW846 6010B
8226602	3	Lead	< 0.05	µg/m3	SW846 6010B

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a7/scj

## CHAIN OF CUSTODY RECORD

POINT  
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083

2010/10/29

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS		REMARKS
AIR MONITORING		POINT RUSTON, LLC		AS Pb		
SAMPLERS: (Signature)						
<i>[Signature]</i>						
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER	
10/4/10	SG		✓		82266004	1 ✓
10/4/10	OCF-VI		✓		82266003	1 ✓
10/4/10	OCF-NW		✓		82266002	1 ✓
<del>10/11/10</del>						
Hi-VOLUME SAMPLER LOG					1 PAGE	C.F.M DATA FOR LISTED FILTERS
<div style="text-align: center; font-size: 2em;">THANK YOU</div>						
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab
<i>[Signature]</i>		10/11/10 1202		<i>[Signature]</i>		Spectra
Relinquished (Signature)		Date/Time		Received by: (Signature)		Shipped via: FedEx, UPS or Other
<i>[Signature]</i>				<i>[Signature]</i>		1202 OFF
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Air Bill #
<i>[Signature]</i>				<i>[Signature]</i>		
						Remarks
						Enclosed:
						<input type="checkbox"/> Parameter List with DTLs
						<input type="checkbox"/> Cover Letter
Split Samples:						
[ ] Accepted [ ] Declined						
Signature						

Table 1. Summary of November 2010 Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.082	16.40%	0.035	7.00%	0.028	5.50%
OSW2	0.046	9.15%	0.018	3.50%	0.003	0.50%
North Outfall	0.025	4.95%	0.028	5.50%	0.018	3.50%

\* 0.5 ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.

## ANALYTICAL SUMMARY REPORT

December 10, 2010

Point Ruston LLC  
5219 N Shirley St Ste 100  
Ruston, WA 98407-6599

Workorder No.: B10120096

Project Name: Tacoma Smelter Outfall Samples

Energy Laboratories Inc received the following 12 samples for Point Ruston LLC on 12/1/2010 for analysis.


Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B10120096-001	TSM1110408, North	11/08/10 11:34	12/01/10	Aqueous	Metals by ICP/ICPMS, Total Metals Preparation by EPA 200.2
B10120096-002	TSM1110108, South	11/08/10 11:19	12/01/10	Aqueous	Same As Above
B10120096-003	TSM1110208, OSW-2	11/08/10 11:20	12/01/10	Aqueous	Same As Above
B10120096-004	TSM1110415, North	11/15/10 12:15	12/01/10	Aqueous	Same As Above
B10120096-005	TSM1110115, South	11/15/10 11:52	12/01/10	Aqueous	Same As Above
B10120096-006	TSM1110215, OSW-2	11/15/10 11:53	12/01/10	Aqueous	Same As Above
B10120096-007	TSM1110422, North	11/22/10 10:04	12/01/10	Aqueous	Same As Above
B10120096-008	TSM1110122, South	11/22/10 10:12	12/01/10	Aqueous	Same As Above
B10120096-009	TSM1110222, OSW-2	11/22/10 10:13	12/01/10	Aqueous	Same As Above
B10120096-010	TSM1110429, North	11/29/10 8:49	12/01/10	Aqueous	Same As Above
B10120096-011	TSM1110129, South	11/29/10 9:20	12/01/10	Aqueous	Same As Above
B10120096-012	TSM1110229, OSW-2	11/29/10 9:22	12/01/10	Aqueous	Same As Above

This report was prepared by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:



Inorganic Department Manager

Digitally signed by  
Cindy Rohrer

Date: 2010.12.10 16:33:47 -07:00



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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B10120096-001  
**Client Sample ID:** TSM1110408, North

**Report Date:** 12/10/10  
**Collection Date:** 11/08/10 11:34  
**Date Received:** 12/01/10  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.028	mg/L		0.005		E200.8	12/07/10 02:23 / tao
Copper	0.04	mg/L		0.01		E200.8	12/07/10 20:53 / tao
Zinc	0.01	mg/L		0.01		E200.8	12/07/10 02:23 / tao

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.





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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B10120096-002  
**Client Sample ID:** TSM1110108, South

**Report Date:** 12/10/10  
**Collection Date:** 11/08/10 11:19  
**Date Received:** 12/01/10  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.099	mg/L		0.005		E200.8	12/07/10 02:44 / tao
Copper	0.05	mg/L		0.01		E200.8	12/07/10 21:14 / tao
Zinc	0.03	mg/L		0.01		E200.8	12/07/10 02:44 / tao

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B10120096-003  
**Client Sample ID:** TSM1110208, OSW-2

**Report Date:** 12/10/10  
**Collection Date:** 11/08/10 11:20  
**Date Received:** 12/01/10  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.062	mg/L		0.005		E200.8	12/07/10 02:48 / tao
Copper	0.03	mg/L		0.01		E200.8	12/07/10 21:18 / tao
Zinc	0.01	mg/L		0.01		E200.8	12/07/10 02:48 / tao

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B10120096-004  
**Client Sample ID:** TSM1110415, North

**Report Date:** 12/10/10  
**Collection Date:** 11/15/10 12:15  
**Date Received:** 12/01/10  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.025	mg/L		0.005		E200.8	12/07/10 02:52 / tao
Copper	0.02	mg/L		0.01		E200.8	12/07/10 21:22 / tao
Zinc	0.02	mg/L		0.01		E200.8	12/07/10 02:52 / tao

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B10120096-005  
**Client Sample ID:** TSM1110115, South

**Report Date:** 12/10/10  
**Collection Date:** 11/15/10 11:52  
**Date Received:** 12/01/10  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.089	mg/L		0.005		E200.8	12/02/10 18:19 / jjw
Copper	0.03	mg/L		0.01		E200.8	12/02/10 18:19 / jjw
Zinc	0.02	mg/L		0.01		E200.8	12/02/10 18:19 / jjw

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B10120096-006  
**Client Sample ID:** TSM1110215, OSW-2

**Report Date:** 12/10/10  
**Collection Date:** 11/15/10 11:53  
**Date Received:** 12/01/10  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.045	mg/L		0.005		E200.8	12/02/10 18:23 / jjw
Copper	0.02	mg/L		0.01		E200.8	12/02/10 18:23 / jjw
Zinc	ND	mg/L		0.01		E200.8	12/02/10 18:23 / jjw

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B10120096-007  
**Client Sample ID:** TSM1110422, North

**Report Date:** 12/10/10  
**Collection Date:** 11/22/10 10:04  
**Date Received:** 12/01/10  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.024	mg/L		0.005		E200.8	12/07/10 02:56 / tao
Copper	0.03	mg/L		0.01		E200.8	12/07/10 21:27 / tao
Zinc	0.02	mg/L		0.01		E200.8	12/07/10 02:56 / tao

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B10120096-008  
**Client Sample ID:** TSM1110122, South

**Report Date:** 12/10/10  
**Collection Date:** 11/22/10 10:12  
**Date Received:** 12/01/10  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.094	mg/L		0.005		E200.8	12/03/10 22:03 / tao
Copper	0.04	mg/L		0.01		E200.8	12/03/10 22:03 / tao
Zinc	0.03	mg/L		0.01		E200.8	12/03/10 22:03 / tao

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B10120096-009  
**Client Sample ID:** TSM1110222, OSW-2

**Report Date:** 12/10/10  
**Collection Date:** 11/22/10 10:13  
**Date Received:** 12/01/10  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.044	mg/L		0.005		E200.8	12/02/10 18:27 / jjw
Copper	0.01	mg/L		0.01		E200.8	12/02/10 18:27 / jjw
Zinc	ND	mg/L		0.01		E200.8	12/02/10 18:27 / jjw

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.





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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B10120096-010  
**Client Sample ID:** TSM1110429, North

**Report Date:** 12/10/10  
**Collection Date:** 11/29/10 08:49  
**Date Received:** 12/01/10  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.022	mg/L		0.005		E200.8	12/03/10 22:07 / tao
Copper	0.02	mg/L		0.01		E200.8	12/03/10 22:07 / tao
Zinc	0.02	mg/L		0.01		E200.8	12/03/10 22:07 / tao

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B10120096-011  
**Client Sample ID:** TSM1110129, South

**Report Date:** 12/10/10  
**Collection Date:** 11/29/10 09:20  
**Date Received:** 12/01/10  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.046	mg/L		0.005		E200.8	12/02/10 18:31 / jjw
Copper	0.02	mg/L		0.01		E200.8	12/02/10 18:31 / jjw
Zinc	0.03	mg/L		0.01		E200.8	12/02/10 18:31 / jjw

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples  
**Lab ID:** B10120096-012  
**Client Sample ID:** TSM1110229, OSW-2

**Report Date:** 12/10/10  
**Collection Date:** 11/29/10 09:22  
**Date Received:** 12/01/10  
**Matrix:** Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>METALS, TOTAL</b>							
Arsenic	0.032	mg/L		0.005		E200.8	12/02/10 18:35 / jjw
Copper	0.01	mg/L		0.01		E200.8	12/02/10 18:35 / jjw
Zinc	ND	mg/L		0.01		E200.8	12/02/10 18:35 / jjw

**Report Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

## QA/QC Summary Report

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples

**Report Date:** 12/10/10  
**Work Order:** B10120096

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E200.8</b>					Analytical Run: ICPMS202-B_101202A				
<b>Sample ID: QCS - 100607A,101012A,</b> Initial Calibration Verification Standard					12/02/10 12:58				
Arsenic	0.0514	mg/L	0.0050	103	90	110			
Copper	0.0530	mg/L	0.010	106	90	110			
Zinc	0.0536	mg/L	0.010	107	90	110			
<b>Method: E200.8</b>					Batch: R157979				
<b>Sample ID: LFB</b> Laboratory Fortified Blank					Run: ICPMS202-B_101202A 12/02/10 12:20				
Arsenic	0.0516	mg/L	0.0050	103	85	115			
Copper	0.0557	mg/L	0.010	111	85	115			
Zinc	0.0557	mg/L	0.010	111	85	115			
<b>Sample ID: LRB</b> Method Blank					Run: ICPMS202-B_101202A 12/02/10 13:22				
Arsenic	0.0002	mg/L	3E-05						
Copper	ND	mg/L	8E-05						
Zinc	ND	mg/L	0.0001						
<b>Sample ID: B10120090-001AMS</b> Sample Matrix Spike					Run: ICPMS202-B_101202A 12/02/10 17:50				
Arsenic	0.0506	mg/L	0.0010	101	70	130			
Copper	0.0536	mg/L	0.010	103	70	130			
Zinc	0.0568	mg/L	0.010	104	70	130			
<b>Sample ID: B10120090-001AMSD</b> Sample Matrix Spike Duplicate					Run: ICPMS202-B_101202A 12/02/10 17:54				
Arsenic	0.0494	mg/L	0.0010	98	70	130	2.4	20	
Copper	0.0523	mg/L	0.010	100	70	130	2.4	20	
Zinc	0.0555	mg/L	0.010	102	70	130	2.5	20	
<b>Sample ID: B10120122-001BMS</b> Sample Matrix Spike					Run: ICPMS202-B_101202A 12/02/10 19:20				
Arsenic	0.0542	mg/L	0.0010	107	70	130			
Copper	0.0603	mg/L	0.010	94	70	130			
Zinc	0.377	mg/L	0.010		70	130			A
<b>Sample ID: B10120122-001BMSD</b> Sample Matrix Spike Duplicate					Run: ICPMS202-B_101202A 12/02/10 19:24				
Arsenic	0.0542	mg/L	0.0010	107	70	130	0.0	20	
Copper	0.0617	mg/L	0.010	96	70	130	2.2	20	
Zinc	0.384	mg/L	0.010		70	130	1.7	20	A

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.



## QA/QC Summary Report

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples

**Report Date:** 12/10/10  
**Work Order:** B10120096

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> E200.8					Analytical Run: ICPMS202-B_101203B				
<b>Sample ID:</b> QCS - 100607A,101012A, Initial Calibration Verification Standard					12/03/10 20:32				
Arsenic	0.0494	mg/L	0.0050	99	90	110			
Copper	0.0516	mg/L	0.010	103	90	110			
Zinc	0.0501	mg/L	0.010	100	90	110			
<b>Method:</b> E200.8					Batch: 50799				
<b>Sample ID:</b> MB-50799 Method Blank					Run: ICPMS202-B_101203B 12/03/10 21:55				
Arsenic	ND	mg/L	5E-05						
Copper	8E-05	mg/L	3E-05						
Zinc	0.003	mg/L	0.0001						
<b>Sample ID:</b> LCS-50799 Laboratory Control Sample					Run: ICPMS202-B_101203B 12/03/10 23:01				
Arsenic	0.500	mg/L	0.0050	100	85	115			
Copper	0.499	mg/L	0.010	100	85	115			
Zinc	0.513	mg/L	0.010	102	85	115			
<b>Sample ID:</b> B10120123-001AMS3 Sample Matrix Spike					Run: ICPMS202-B_101203B 12/03/10 23:04				
Arsenic	0.477	mg/L	0.0050	95	70	130			
Copper	0.487	mg/L	0.010	93	70	130			
Zinc	0.484	mg/L	0.010	95	70	130			
<b>Sample ID:</b> B10120123-001AMS3D Sample Matrix Spike Duplicate					Run: ICPMS202-B_101203B 12/03/10 23:07				
Arsenic	0.492	mg/L	0.0050	98	70	130	3.0	20	
Copper	0.499	mg/L	0.010	96	70	130	2.5	20	
Zinc	0.496	mg/L	0.010	98	70	130	2.5	20	

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

## QA/QC Summary Report

**Client:** Point Ruston LLC  
**Project:** Tacoma Smelter Outfall Samples

**Report Date:** 12/10/10  
**Work Order:** B10120096

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E200.8</b>					Analytical Run: ICPMS202-B_101206A				
<b>Sample ID: QCS - 100607A,101012A,</b> Initial Calibration Verification Standard					12/07/10 00:11				
Arsenic	0.0476	mg/L	0.0050	95	90	110			
Zinc	0.0495	mg/L	0.010	99	90	110			
<b>Method: E200.8</b>					Batch: 50805				
<b>Sample ID: MB-50805</b> Method Blank					Run: ICPMS202-B_101206A 12/07/10 02:15				
Arsenic	0.0002	mg/L	5E-05						
Copper	0.0001	mg/L	3E-05						
Zinc	ND	mg/L	0.0001						
<b>Sample ID: LCS-50805</b> Laboratory Control Sample					Run: ICPMS202-B_101206A 12/07/10 03:01				
Arsenic	0.479	mg/L	0.0050	96	85	115			
Copper	0.491	mg/L	0.010	98	85	115			
Zinc	0.494	mg/L	0.010	99	85	115			
<b>Sample ID: B10120070-001AMS3</b> Sample Matrix Spike					Run: ICPMS202-B_101206A 12/07/10 03:04				
Arsenic	92.8	mg/L	0.0050		70	130			A
Copper	17100	mg/L	0.010		70	130			A
Zinc	9.49	mg/L	0.010	106	70	130			
<b>Sample ID: B10120070-001AMSD3</b> Sample Matrix Spike Duplicate					Run: ICPMS202-B_101206A 12/07/10 03:07				
Arsenic	88.6	mg/L	0.0050		70	130	4.7	20	A
Copper	16200	mg/L	0.010		70	130	5.4	20	A
Zinc	9.32	mg/L	0.010	103	70	130	1.8	20	
<b>Method: E200.8</b>					Analytical Run: ICPMS202-B_101207A				
<b>Sample ID: QCS - 100607A,101012A,</b> Initial Calibration Verification Standard					12/07/10 17:43				
Copper	0.0513	mg/L	0.010	103	90	110			
<b>Method: E200.8</b>					Batch: 50805				
<b>Sample ID: MB-50805</b> Method Blank					Run: ICPMS202-B_101207A 12/07/10 20:45				
Arsenic	0.0003	mg/L	5E-05						
Copper	0.002	mg/L	3E-05						
Zinc	0.003	mg/L	0.0001						

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

# Workorder Receipt Checklist



B10120096

Login completed by: Darwin C. Miller

Date Received: 12/1/2010

Reviewed by: BL2000\kmcDonald

Received by: akl

Reviewed Date: 12/2/2010

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	9.8°C On Ice		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

 -----  
 Contact and Corrective Action Comments:

None

# POINT RUSTON

5219 N. Shirley St., Suite 100 Tacoma, WA 98407  
Phone: 253-752-2185 Fax: 253-752-7083

## CHAIN OF CUSTODY RECORD

NOVEMBER

PROJ. NO		PROJECT NAME		SAMPLERS: (Signature)		NO. OF CONTAINERS	REMARKS
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
11/8/10	NORTH	11:34	✓		TSM1110408	1	AS-CU-ZN 30120096-001 PLEASE EMAIL RESULTS TO: -002 Tim 2@POINTRUSTON.COM -003 -004 -005 -006 -007 -008 -009 -010 -011 -012 THANK YOU
11/8/10	SOUTH	11:19	✓		TSM1110108	1	
11/8/10	OSW-2	11:20	✓		TSM1110208	1	
11/15/10	NORTH	12:15	✓		TSM1110415	1	
11/15/10	SOUTH	11:52	✓		TSM1110115	1	
11/15/10	OSW-2	11:53	✓		TSM1110215	1	
11/22/10	NORTH	10:07	✓		TSM1110422	1	
11/22/10	SOUTH	10:12	✓		TSM1110122	1	
11/22/10	OSW-2	10:13	✓		TSM1110222	1	
11/29/10	NORTH	8:49	✓		TSM1110429	1	
11/29/10	SOUTH	9:20	✓		TSM1110129	1	
11/29/10	OSW-2	9:22	✓		TSM1110229	1	
Relinquished (Signature)		Date/Time		Received by (Signature)		Lab	
[Signature]		11/30/10 12:00		[Signature]		ENERGY	
Relinquished (Signature)		Date/Time		Received by (Signature)		Remarks	
[Signature]		11/30/10		[Signature]			
Relinquished (Signature)		Date/Time		Received for Laboratory by (Signature)		Date/Time	
[Signature]		11/30/10		[Signature]			
						Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	

9.8" on 1 LL  
Fed Ex EXP  
SEALS ON BOTH HUGS  
ATCVD 12.1.10 1100

Split Samples:

[ ] Accepted [ ] Declined

Signature